## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
nternational application N		y/month/year) (Earliest) Priority Date (day/month/year)
CT/EP2004/0143	79 14/12/2	2004 16/12/2003
pplicant  LAXOSMITHKLINE	BIOLOGICALS S.A.	
according to Article 18.	h Report has been prepared by this International A copy is being transmitted to the International h Report consists of a total of6	
X It is also	accompanied by a copy of each prior art docu	ment cited in this report.
		ried out on the basis of the international application in the er this item.
	this Authority (Rule 23.1(b)).	e basis of a translation of the International application furnished to
b. X With reg	ard to any nucleotide and/or amino acid seq	quence disclosed in the international application, see Box No. I.
. Certain	claims were found unsearchable (See Box II	1).
3. Unity of	invention is lacking (see Box III).	
. With regard to the ti	tle,	
	is approved as submitted by the applicant.	
	has been established by this Authority to read a	as follows: REATMENT OF AUTOIMMUNE DISEASES
5. With regard to the al	bstract,	
X the text	is approved as submitted by the applicant.	
		b), by this Authority as it appears in Box No. IV. The applicant international search report, submit comments to this Authority.
6. With regard to the d	rawings,	
a. the figure of the	drawings to be published with the abstract is f	Figure No
	as suggested by the applicant.	
=	as selected by this Authority, because the appli	
	as selected by this Authority, because this figur	
b. X none of	the figures is to be published with the abstract.	

International application No.

PCT/EP2004/014379

Rox	NO. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sneet)
1.	With inve	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:
	a.	type of material  X a sequence listing table(s) related to the sequence listing
	b.	format of material  X in written format  X in computer readable form
	c.	time of filing/furnishing  X contained in the international application as filed  X filed together with the international application in computer readable form  furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addi	tional comments:

International Application No PCT/EP2004/014379

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K39/00 A61P37/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS

C. DOCUMENTS	CONSIDERED	IO DE METEANUI

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MÉLISANDE RICHARD ET AL.: "Anti-IL-9 vaccination prevents worm expulsion and blood eosinophilia in Trichuris muris-infected mice" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES USA, vol. 97, no. 2, 18 January 2000 (2000-01-18), pages 767-772, XP002331545 cited in the application page 767, right-hand column, paragraph 1 page 767, right-hand column, paragraph 5 - page 768, left-hand column, paragraph 1 page 768, right-hand column, paragraph 4 page 770, right-hand column, paragraph 2 page 771, right-hand column, last paragraph - page 772, left-hand column, paragraph 1	1-4,6,7, 12-18
	<b>-/</b>	

Y	Further documents are listed in the	continuation of box C.

Patent family members are listed in annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international tiling date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed
- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Date of mailing of the international search report

\*&\* document member of the same patent family

Date of the actual completion of the international search

22/06/2005

13 June 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Montero Lopez, B

1

International Application No
PCT/EP2004/014379

		FC1/EF2004/0143/9
	etion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97/20062 A (UNIVERSITY OF MASSACHUSSETS) 5 June 1997 (1997-06-05) page 1, line 27 - page 2, line 23 page 3, line 3 - line 26 page 4, line 7 - line 31 page 16, line 30 - page 17, line 31	1-20
A	WO 98/57659 A (SMITHKLINE BEECHAM BIOLOGICALS S.A.) 23 December 1998 (1998-12-23) cited in the application the whole document	1-20
P,X	UYTTENHOVE CATHERINE ET AL: "Development of an anti-IL-12 p40 auto-vaccine: protection in experimental autoimmune encephalomyelitis at the expense of increased sensitivity to infection." EUROPEAN JOURNAL OF IMMUNOLOGY. DEC 2004, vol. 34, no. 12, December 2004 (2004-12), pages 3572-3581, XP002331546 ISSN: 0014-2980 the whole document	1-20

1

International application No. PCT/EP2004/014379

## INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 15, and claims 17-19, as far as encompassing an in vivo method, are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.:     because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this International application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

Information on patent family members

International Application No
PCT/EP2004/014379

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9720062	Α	05-06-1997	AU WO	1407997 9720062	- •	19-06-1997 05-06-1997
WO 9857659	A	23-12-1998	CA CA WO EP EP JP US US	2293614 2294051 9857659 9857660 1001808 0977589 2002504135 2002504136 6375945 2002160011	A1 A1 A1 A1 A1 T T	23-12-1998 23-12-1998 23-12-1998 23-12-1998 24-05-2000 09-02-2000 05-02-2002 05-02-2002 23-04-2002 31-10-2002